

## **PANEL BIOS**

### **Dr. James J. Anderson**

Dr. Anderson is a research professor the School of Aquatic and Fisheries Sciences at the University of Washington, where he has been teaching since 1983, and Co-Director of Columbia Basin Research. Prior to joining the faculty at the University of Washington, he did research work at the University of Kyoto in Japan, the National Institute of Oceanography in Indonesia, and Institute of Oceanographic Sciences in Wormley, UK. Dr. Anderson's research focuses on models of ecological and biological processes from a mechanistic perspective, specifically: (1) migration of organisms, (2) decision processes, and (3) mortality processes. For three decades he has studied the effects of hydrosystems and water resource allocations on salmon and other fish species. He has developed computer models of the migration of juvenile and adult salmon through hydrosystems and heads the DART website, an internet database serving real-time environmental and fisheries data on the Columbia River. His other research interests include mathematical studies in ecosystems, biodemography, toxicology and animal behavior. He has served on a number of regional and national panels and has testified numerous times before Congress on the impacts of hydrosystems on fisheries resources. He received his B.S. and Ph.D. in oceanography from the University of Washington.

### **Dr. Ronald T. Kneib**

Dr. Kneib received his B.S. from Pennsylvania State University, and earned an M.A. and Ph.D. in Ecology at the University of North Carolina at Chapel Hill. He served on the resident research faculty of the University of Georgia Marine Institute on Sapelo Island from 1980 to 2010. His domestic and international research programs and scientific publications have explored the roles of fishes and invertebrates in ecological processes, production dynamics and functional genomics within coastal landscapes across a range of spatial and temporal scales. He has served on the editorial boards of several international journals including Marine Ecology Progress Series, Wetlands, and Endangered Species Research. Currently, Dr. Kneib holds the title of Senior Research Scientist Emeritus at UGA, and is sole proprietor of RTK Consulting Services, now based in Hillsboro, New Mexico. Dr. Kneib is certified as a Senior Ecologist by the Ecological Society of America's Board of Professional Certification and has assisted private industry and government agencies with major restoration projects and management of tidal wetlands on the Atlantic, Gulf and Pacific coasts of the U.S. since 1994. He has been actively involved with issues in the San Francisco Bay-Delta region as an invited participant in workshops to develop models and approaches for the Delta Regional Ecosystem Restoration Implementation Plan and the Bay Delta Conservation Plan, as well as serving on technical panels reviewing the Interagency Ecological Program on Pelagic Organism Decline (2005/06), Environmental Water Account (2006), and the 2008 U.S. Fish & Wildlife Biological Opinion on long-term Operations Criteria and Plan for coordination of joint federal-state water projects (2009).

**Dr. Stacy Luthy**

Dr. Luthy earned her B.S. at Louisiana State University and her Ph.D. at the University of Miami Rosenstiel School of Marine and Atmospheric Science. She is an Assistant Professor of Biological Sciences at the University of the Pacific. The focus of Dr. Luthy's research is the biology and ecology of fishes, in particular, the early life stages. Dr. Luthy has studied growth and habitat usage of young fishes in habitats ranging from the Gulf Stream to salt marshes to freshwater sounds. She is currently involved with ameliorating passage opportunities for salmonids as a member of the Calaveras River Fish Group.

**Dr. Peter E. Smith**

Dr. Smith received his B.S. from Villanova University, his M.S. from Colorado State University, and his Ph.D. from the University of California, Davis. Dr. Smith is a retired research hydrologist from the U.S. Geological Survey, where he worked for over 31 years. Since retiring from the USGS California Water Science Center in January 2008, he has remained active in environmental consulting and has served on a number of CALFED and Federal agency-sponsored review panels and teams. He is a specialist in estuarine hydrodynamics and modeling with an emphasis on ecological applications. He has particular expertise in the hydrodynamics of the San Francisco Bay-Delta estuary where he has conducted research and studies for 27 years. He served for nine years as the USGS representative to the Management Team for the Interagency Ecological Program of the San Francisco Bay-Delta Estuary, which oversees monitoring and studies programs in the estuary for nine federal and state agencies. He has also served for the past 12 years as a member of the Computational Hydraulics Committee for the Environmental and Water Resources Institute of the American Society of Civil Engineers (ASCE) and for the past 20 years on the advisory committee for ASCE's biannual Estuarine and Coastal Modeling Conferences.